

SAFETY DATA SHEET

Revision Date 26-Mar-2024

Revision Number 3

1. Identification

Product Name

(S)-(-)-alpha,alpha-Diphenylprolinol

Cat No. : L09217

CAS No **Synonyms**

\$1,\$1-Diphenyl-L-prolinol; (S)-(-)-2-(Diphenylhydroxymethyl)pyrrolidine **Recommended Use** Laboratory chemicals. Food, drug, pesticide or biocidal product use. Uses advised against

112068-01-6

Details of the supplier of the safety data sheet

Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill. MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information US call: 001-800-227-6701 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No. US:001-800-424-9300 / Europe:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
(S)-(-)alpha.,.alphaDiphenyl-2-pyrrolidinemethan	112068-01-6	> 99
ol		

4. First-aid measures						
Eye Contact Immediate medical attention is required. Rinse immediately with plenty of wat the eyelids, for at least 15 minutes.						
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention. Take off contaminated clothing and shoes immediately.					
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Immediate medical attention is required.					
Ingestion	Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician immediately. If possible drink milk afterwards.					
Most important symptoms and effects	No information available.					

Notes to Physician

Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u>	Health	Flammability	Instability	Physical hazards
	2	1	0	N/A
		6. Accidental rel	ease measures	

Personal PrecautionsEnsure adequate ventilation. Use personal protective equipment as required.Environmental PrecautionsSee Section 12 for additional Ecological Information.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Up

	7. Handling and storage
Handling	Avoid contact with skin and eyes. Avoid contact with skin and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Avoid breathing vapors or mists. Do not ingest. If swallowed then seek immediate medical assistance. Wash thoroughly after handling.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Oxidizing agent.
	8. Exposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Ventilation systems. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Beige
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	77 - 80 °C / 170.6 - 176 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C17 H19 N O
Molecular Weight	253.34

10. Stability and reactivity

Reactive Hazard	Stable under normal conditions. void Incompatible products. aterials Oxidizing agent omposition Products Thermal decomposition can lead to release of irritating gases and vapors					
Stability	Stable under normal conditions.					
Conditions to Avoid	Incompatible products.					
Incompatible Materials	Oxidizing agent					
Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors						
Hazardous Polymerization	Hazardous polymerization does not occur.					
Hazardous Reactions	None under normal processing.					
	11. Toxicological information					
Acute Toxicity						
Product Information	No acute toxicity information is available for this product					

Product Information Component Information Toxicologically Synergistic No acute toxicity information is available for this product

No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No	o information available
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Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico				
(S)-(-)alpha.,.alpha	112068-01-6	Not listed	Not listed	Not listed	Not listed	Not listed				
Diphenyl-2-pyrrolidine										
methanol										
Mutagenic Effects		No information available								
Reproductive Effects	5	No information available	No information available.							
Developmental Effec	ts	No information ava	ailable.							
Teratogenicity No information available.										
STOT - single exposi	ure	Respiratory system								
STOT - repeated exp		None known								
Aspiration hazard		No information ava	ailable							
Symptoms / effects, delayed	ns / effects, both acute and No information available									
-										
Endocrine Disruptor Information No information available										
Other Adverse Effect	e	The toxicological r	oroperties have no	t been fully investig	nated					
Other Auverse Lifet	.5	The toxicological p	oropenties have no		Jaleu.					
		12 Ecol	ogical infor	mation						
Ecotoxicity		12. 2001	ogioar mior	mation						
Ecotoxicity Do not empty into drai	ns									
Do not ompty into arai										
Persistence and Deg	radability	No information ava	ailable							
-	-									
Bioaccumulation/ Ac	cumulation	No information ava	ailable.							
Mahility		No information ov	oilabla							
Mobility		No information ava	allable.							
13. Disposal considerations										
	-									
Waste Disposal Meth	nods	Chemical waste g	enerators must de	termine whether a	discarded chemica	al is classified as a				
				generators must als						
		national hazardou	s waste regulation	is to ensure comple	ete and accurate cl	assification.				
		4 4 T								
			nsport infor	mation						
DOT		Not regulated								
TDG		Not regulated								
IATA		Not regulated								
IMDG/IMO		Not regulated								
		15. Reau	latory info	rmation						
			j							
United States of Ame	erica Inventorv									
			<u>.</u>							
Component		CAS No	TSCA	FSCA Inventory noti	fication - TSCA	- EPA Regulatory				

			Active-Inactive	Flags
(S)-(-)alpha.,.alphaDiphenyl-2-p	112068-01-6	-	-	-
yrrolidinemethanol				

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

Not applicable TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
(S)-(-)alpha.,.alphaDiphenyl-2-p	112068-01-6	-	-	-	-	-		-	-	-
yrrolidinemethanol										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ):	Ν

Reputable Quantity (RQ).	IN
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland This product does not contain any DHS chemicals. Security

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	on Certain Dangerous	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
(S)-(-)alpha.,.alphaDiphenyl-2-pyr rolidinemethanol	112068-01-6	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
(S)-(-)alpha.,.alphaDiphenyl -2-pyrrolidinemethanol	112068-01-6	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Convention (PIC)	Basel Convention (Hazardous Waste)
(S)-(-)alpha.,.alphaDiphenyl -2-pyrrolidinemethanol	112068-01-6	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Revision Date Print Date Revision Summary	26-Mar-2024 26-Mar-2024 New emergency telephone response service provider.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS